5/20/2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:
x
Welcome to STN International! Enter x:
LOGINID:ssspta1612rxd

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	12	APR 26	PROMT: New display field available
NEWS	13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	14	APR 26	LITALERT now available on STN
NEWS	15	APR 27	NLDB: New search and display fields available
NEWS	16	May 10	PROUSDDR now available on STN
NEWS	17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS	18	May 12	EXTEND option available in structure searching
NEWS	19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	20	May 17	FRFULL now available on STN

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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5/20/2004

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:15:51 ON 20 MAY 2004

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:16:08 ON 20 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAY 2004 HIGHEST RN 683745-80-4
DICTIONARY FILE UPDATES: 19 MAY 2004 HIGHEST RN 683745-80-4

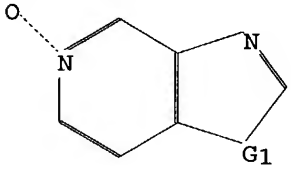
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

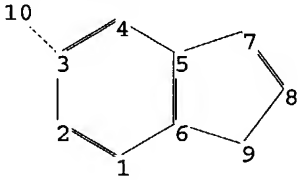
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10726131.str





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10
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
3-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
3-10 5-7 6-9 7-8 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S,Se

10726131

5/20/2004

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

L1 STRUCTURE UPLOADED

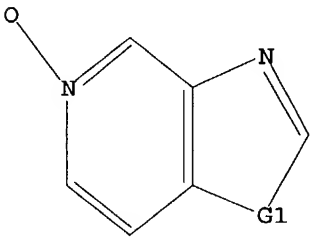
=> s l1
SAMPLE SEARCH INITIATED 17:16:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,S,Se

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful
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FULL SCREEN SEARCH COMPLETED - 37 TO ITERATE

100.0% PROCESSED 37 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>
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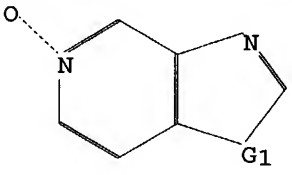
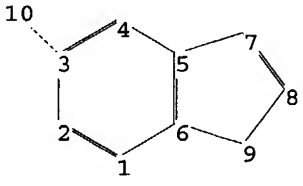




10726131

5/20/2004

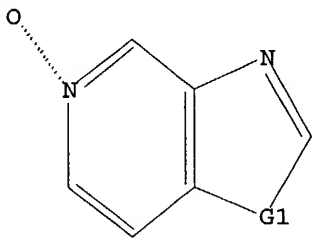
chain nodes :
10
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
3-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
3-10 5-7 6-9 7-8 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S,Se

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



G1 O,S,Se

Structure attributes must be viewed using STN Express query preparation.

=> s l4
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SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 1 TO 80

L5 1 SEA SSS SAM L4

=> s l4 ful
FULL SEARCH INITIATED 17:17:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 37 TO ITERATE

5/20/2004

100.0% PROCESSED 37 ITERATIONS 35 ANSWERS
SEARCH TIME: 00.00.01

L6 35 SEA SSS FUL L4

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	311.26	311.47

FILE 'CAPLUS' ENTERED AT 17:17:56 ON 20 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 20 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 19 May 2004 (20040519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l6
L7 4 L6

=> d abs bib fhitstr 1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB Pharmaceuticals, useful for prevention and/or treatment of thrombus and embolus, contain Q1Q2T1SO2QA [I; Q1 = (un)substituted bicyclic or tricyclic group; Q2 = single bond, O, S, C1-6 alkylene, etc.; Q3 = N-containing cyclic group; QA = (un)substituted (hetero)arylalkenyl, bicyclic or tricyclic group, etc.; T1 = CO, (un)substituted methylene, etc.], their salts, or solvates. (2RS)-2-(N-tert-butoxycarbonylaminomethyl)-6-methoxycarbonyl-1,2,3,4-tetrahydronaphthalene was treated with NaOH, condensed with 1-[(6-chloronaphthalen-2-yl)sulfonyl]piperazine.HCl, and deprotected to give (RS)-I.HCl (Q1 = 6-aminomethyl-5,6,7,8-tetrahydronaphthalen-2-yl, Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl, QA = 6-chloronaphthalen-2-yl). I.HCl (Q1 = 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl, Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl, QA = 6-chloronaphthalen-2-yl) in vitro inhibited human FXa with IC50 of 20 nM.

AN 2001:769282 CAPLUS

DN 135:313616

TI Heterocyclic sulfonyl compounds and activated blood coagulation factor X (FXa) inhibitors containing them

IN Kobayashi, Shozo; Komoritani, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Yoshikawa, Kenji; Muto, Akira; Ozanai, Takeshi; Nakamoto, Yumi; Mochizuki, Akiyoshi; Nagata, Tsutomu

PA Daiichi Seiyaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 304 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001294572	A2	20011023	JP 2000-38100	20000209
PRAI	JP 2000-38100		20000209		

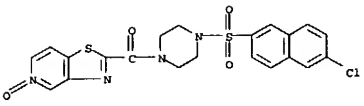
OS MARPAT 135:313616

IT **259806-05-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heterocyclic sulfonyl compds. as activated blood coagulation factor X inhibitors)

RN 259806-05-8 CAPLUS

CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compds. Q1Q2T1Q3SO2QA [wherein Q1 is an optionally substituted, saturated or unsatd., five- or six-membered cyclic hydrocarbon group, a five- or six-membered heterocyclic group, or the like; Q2 is a single bond, oxygen, sulfur, C1-C6 alkylene or the like; Q3 is a heterocyclic ring (represented by several generic structures); QA is optionally substituted arylalkenyl, heteroarylalkenyl or the like; and T1 is carbonyl or the like] are prepared These compds. have potent factor Xa inhibiting effects and promptly exert satisfactory and persistent antithrombotic effects through oral administration, thus being useful as anticoagulant agents little accompanied with side effects. Several compds. of this invention in vitro showed IC50 values of 0.7 nM to 4.7 nM against factor Xa.

AN 2000:133658 CAPLUS

DN 132:194391

TI Preparation of sulfonyl moiety-containing heterocyclic compounds as factor Xa inhibitors

IN Kobayashi, Syozo; Komoriya, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Nagata, Tsutomu; Horino, Haruhiko; Ito, Masayuki; Mochizuki, Akiyoshi

PA Daiichi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 883 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000009480	A1	20000224	WO 1999-JP4344	19990811
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2000119253	A2	20000425	JP 1999-226878	19990810
	CA 2340100	AA	20000224	CA 1999-2340100	19990811
	AU 9951963	A1	20000306	AU 1999-51963	19990811
	EP 1104754	A1	20010606	EP 1999-937024	19990811
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000143623	A2	20000526	JP 1999-242814	19990830
	US 2004082611	A1	20040429	US 2003-681205	20031009
PRAI	JP 1998-227449	A	19980811		
	JP 1998-244175	A	19980828		
	JP 1998-251674	A	19980904		
	WO 1999-JP4344	W	19990811		
	US 2001-762888	A3	20010212		

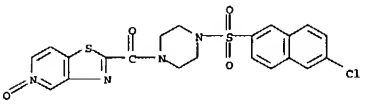
OS MARPAT 132:194391

IT **259806-05-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of sulfonyl moiety-contg. heterocyclic compds. as factor Xa inhibitors)

RN 259806-05-8 CAPLUS

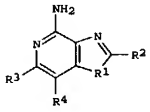
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
GI

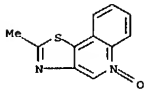


I

AB The title compds. [R1 = O, S, Se; R2 = H, alkyl, alkyl-OH, etc.; R3, R4 = H, halo, haloalkyl, etc.] which are immunomodulators and induce cytokine biosynthesis, including interferon-α and/or tumor necrosis factor-α biosynthesis, and inhibit the T-helper-type 2 immune response, were prepared E.g., a multi-step synthesis of I [R1 = S; R2 = Me; R3R4 = CH:CHCH:CH] was given. Biol. data for compds. I were presented. The compds. I are further useful in the treatment of viral and neoplastic diseases.
AN 2000:98561 CAPLUS
DN 132:137381
TI Preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as
immunomodulators and for inducing cytokine biosynthesis
IN Gerster, John F.; Lindstrom, Kyle J.; Marszalek, Gregory J.; Merrill, Bryon A.; Mickelson, John W.; Rice, Michael J.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000006577	A1	20000210	WO 1999-US17027	19990728
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6110929	A	20000829	US 1999-361544	19990727
	CA 2338504	AA	20000210	CA 1999-2338504	19990728
	AU 9951331	A1	20000221	AU 1999-51331	19990728
	AU 748050	B2	20020530		
	EP 1100802	A1	20010523	EP 1999-935968	19990728
	EP 1100802	B1	20030924		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	TR 200100278	T2	20010821	TR 2001-200100278	19990728
	BR 9912448	A	20011009	BR 1999-12448	19990728
	JP 2002524392	T2	20020806	JP 2000-562377	19990728
	CZ 291753	B6	20030514	CZ 2001-327	19990728
	NZ 509420	A	20030829	NZ 1999-509420	19990728
	AT 250612	E	20031015	AT 1999-935968	19990728
	EP 1380587	A2	20040114	EP 2003-21166	19990728
	EP 1380587	A3	20040218		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	ES 2203160	T3	20040401	ES 1999-935968	19990728
	US 6323200	B1	20011127	US 2000-593434	20000614
	ZA 2001000735	A	20020125	ZA 2001-735	20010125
	NO 2001000497	A	20010327	NO 2001-497	20010129
	US 2002072528	A1	20020613	US 2001-961738	20010924
	US 6440992	B2	20020827		
	US 2003065006	A1	20030403	US 2002-192416	20020710
	US 6627640	B2	20030930		
	US 2003045545	A1	20030306	US 2002-241931	20020912
	US 6677334	B2	20040113		
	US 2003064968	A1	20030403	US 2002-242340	20020912
	US 6627638	B2	20030930		
	US 2003195224	A1	20031016	US 2003-370804	20030220
	US 6703402	B2	20040309		
PRAI	US 1998-94346P	P	19980728		
	US 1999-361544	A	19990727		
	EP 1999-935968	A3	19990728		
	WO 1999-US17027	W	19990728		
	US 2000-593434	A3	20000614		
	US 2001-961738	A3	20010924		
	US 2002-192416	A1	20020710		

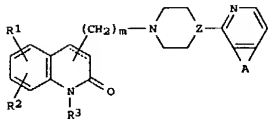
OS MARPAT 132:137381
IT **256922-46-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as
immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



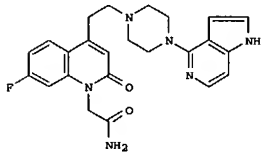
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I



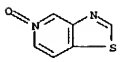
II

AB The invention concerns compds. I [dashed line = single or double bond; major sidechain is in position 3 or 4; Z = N or CH; R1, R2 = H, halo, amino, OH, NO2, cyano, (C1-6) alkyl, (C1-6) alkoxy, CF3, CF3O, COOH, COOR4, CONH2, CONHR4, CONR4R5, SR4, SO2R4, NHCOR4, NHSO2R4, N(R4)2; R3 = H, (C1-4) alkyl, (CH2)pOH, (CH2)pNH2, (CH2)nCOOH, (CH2)nCOOR4, (CH2)nCN, (CH2)n-tetrazolyl, (CH2)nCONH2, (CH2)nCONHOH, (CH2)pSH, (CH2)nSO3H, (CH2)nSO2NH2, (CH2)nSO2NHR4, (CH2)nSO2NR4R5, (CH2)nCONHR4, (CH2)nCONR4R5, (CH2)pNHSO2R4, (CH2)pNHCOR4, (CH2)pOCOR4; R4, R5 = (C1-4) alkyl; m = 2-4; n = 1-4; p = 2-4; A = optional (un)substituted benzo or hetero fusion; with provisos] and salts. The compds. are antagonists of serotoninergic receptors, notably 5-HT2 or 5-HT1-like subtypes. The invention is thereby
applicable in therapeutics, particularly for treatment or prevention of cardiovascular pathologies such as ischemias, angina, thromboses, atherosclerosis, various hypertensions, and vasospasms. For instance, 4-(2-chloroethyl)-7-fluoro-2-oxo-1,2-dihydroquinoline-1-acetamide (prepared
in 6 steps) was coupled with 4-(piperazin-1-yl)-1H-pyrrolo[3,2-c]pyridine (prepared in 8 steps) using NaHCO3 and KI in MeCN-DMF mixture at 70°, followed by acidification with HCl in Et2O, to give title compound II.2HCl
in 64% yield. In a test for inhibition of [3H]-spiroperidol specific binding to rat cerebral 5-HT2 receptors in vitro, I had IC50 values of < 1
μM.
AN 1998:672552 CAPLUS
DN 129:275934
TI Quinolin-2(1H)-one and dihydroquinolin-2(1H)-one derivatives as ligands of

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
5-HT, 5-HT2 and 5-HT1-like receptors
IN McCort, Gary; Hoornaert, Christian; Cadilhac, Caroline; Duclos, Olivier; Guilpain, Eric
PA Synthelabo, Fr.
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9842712	A1	19981001	WO 1998-FR528	19980317
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2761071	A1	19980925	FR 1997-3387	19970320
FR 2761071	B1	19991203		
AU 9869239	A1	19981020	AU 1998-69239	19980317
EP 971928	A1	20000119	EP 1998-914928	19980317
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
ZA 9802362	A	19980923	ZA 1998-2362	19980319
PRAI FR 1997-3387		19970320		
WO 1998-FR528		19980317		

OS MARPAT 129:275934
IT **214045-73-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of piperazinylalkyl quinolinone and dihydroquinolinone derivs. as serotoninergic antagonists)
RN 214045-73-5 CAPLUS
CN Thiazolo[4,5-c]pyridine, 5-oxide (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

5/20/2004

=> d abs bib hitstr 1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB Pharmaceuticals, useful for prevention and/or treatment of thrombus and embolus, contain Q1Q2T1SO2QA [I; Q1 = (un)substituted bicyclic or tricyclic group; Q2 = single bond, O, S, C1-6 alkylene, etc.; Q3 = N-containing cyclic group; QA = (un)substituted (hetero)arylalkenyl, bicyclic or tricyclic group, etc.; T1 = CO, (un)substituted methylene, etc.], their salts, or solvates. (2RS)-2-(N-tert-butoxycarbonylaminomethyl)-6-methoxycarbonyl-1,2,3,4-tetrahydronaphthalene was treated with NaOH, condensed with 1-[(6-chloronaphthalen-2-yl)sulfonyl]piperazine.HCl, and deprotected to give (RS)-I.HCl (Q1 = 6-aminomethyl-5,6,7,8-tetrahydronaphthalen-2-yl, Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl, QA = 6-chloronaphthalen-2-yl). I.HCl (Q1 = 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl, Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl, QA = 6-chloronaphthalen-2-yl) in vitro inhibited human FXa with IC50 of 20 nM.

AN 2001:769282 CAPLUS

DN 135:313616

TI Heterocyclic sulfonyl compounds and activated blood coagulation factor X (FXa) inhibitors containing them

IN Kobayashi, Shozo; Komoritani, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Yoshikawa, Kenji; Muto, Akira; Ozanai, Takeshi; Nakamoto, Yumi; Mochizuki, Akiyoshi; Nagata, Tsutomu

PA Daiichi Seiyaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 304 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001294572	A2	20011023	JP 2000-38100	20000209

PRAI JP 2000-38100 20000209

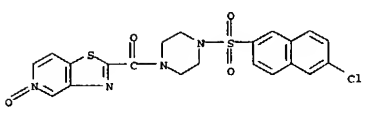
OS MARPAT 135:313616

IT **259806-05-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heterocyclic sulfonyl compds. as activated blood coagulation factor X inhibitors)

RN 259806-05-8 CAPLUS

CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compds. Q1Q2T1Q3SO2QA [wherein Q1 is an optionally substituted, saturated or unsatd., five- or six-membered cyclic hydrocarbon group, a five- or six-membered heterocyclic group, or the like; Q2 is a single bond, oxygen, sulfur, C1-C6 alkylene or the like; Q3 is a heterocyclic ring (represented by several generic structures); QA is optionally substituted arylalkenyl, heteroarylalkenyl or the like; and T1 is carbonyl or the like] are prepared These compds. have potent factor Xa inhibiting effects and promptly exert satisfactory and persistent antithrombotic effects through oral administration, thus being useful as anticoagulant agents little accompanied with side effects. Several compds. of this invention in vitro showed IC50 values of 0.7 nM to 4.7 nM against factor Xa.

AN 2000:133658 CAPLUS

DN 132:194391

TI Preparation of sulfonyl moiety-containing heterocyclic compounds as factor Xa inhibitors

IN Kobayashi, Syozo; Komoriya, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Nagata, Tsutomu; Horino, Haruhiko; Ito, Masayuki; Mochizuki, Akiyoshi

PA Daiichi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 883 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009480	A1	20000224	WO 1999-JP4344	19990811
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2000119253	A2	20000425	JP 1999-226878	19990810
CA 2340100	AA	20000224	CA 1999-2340100	19990811
AU 9951963	A1	20000306	AU 1999-51963	19990811
EP 1104754	A1	20010606	EP 1999-937024	19990811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000143623	A2	20000526	JP 1999-242814	19990830
US 2004082611	A1	20040429	US 2003-681205	20031009

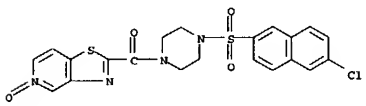
PRAI JP 1998-227449 A 19980811
JP 1998-244175 A 19980828
JP 1998-251674 A 19980904
WO 1999-JP4344 W 19990811
US 2001-762888 A3 20010212

OS MARPAT 132:194391

IT **259806-05-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of sulfonyl moiety-contg. heterocyclic compds. as factor Xa inhibitors)

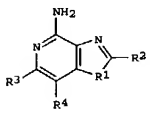
RN 259806-05-8 CAPLUS

CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
GI



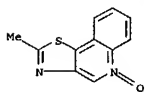
I

AB The title compds. [R1 = O, S, Se; R2 = H, alkyl, alkyl-OH, etc.; R3, R4 = H, halo, haloalkyl, etc.] which are immunomodulators and induce cytokine biosynthesis, including interferon-α and/or tumor necrosis factor-α biosynthesis, and inhibit the T-helper-type 2 immune response, were prepared E.g., a multi-step synthesis of I [R1 = S; R2 = Me; R3R4 = CH:CHCH:CH] was given. Biol. data for compds. I were presented. The compds. I are further useful in the treatment of viral and neoplastic diseases.
AN 2000:98561 CAPLUS
DN 132:137381
TI Preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as
immunomodulators and for inducing cytokine biosynthesis
IN Gerster, John F.; Lindstrom, Kyle J.; Marszalek, Gregory J.; Merrill, Bryon A.; Mickelson, John W.; Rice, Michael J.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

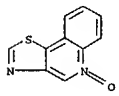
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000006577	A1	20000210	WO 1999-US17027	19990728
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6110929	A	20000829	US 1999-361544	19990727
CA 2338504	AA	20000210	CA 1999-2338504	19990728
AU 9951331	A1	20000221	AU 1999-51331	19990728
AU 748050	B2	20020530		
EP 1100802	A1	20010523	EP 1999-935968	19990728
EP 1100802	B1	20030924		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200100278	T2	20010821	TR 2001-200100278	19990728
BR 9912448	A	20011009	BR 1999-12448	19990728
JP 2002524392	T2	20020806	JP 2000-562377	19990728
CZ 291753	B6	20030514	CZ 2001-327	19990728
NZ 509420	A	20030829	NZ 1999-509420	19990728
AT 250612	E	20031015	AT 1999-935968	19990728
EP 1380587	A2	20040114	EP 2003-21166	19990728
EP 1380587	A3	20040218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
ES 2203160	T3	20040401	ES 1999-935968	19990728
US 6323200	B1	20011127	US 2000-593434	20000614
ZA 2001000735	A	20020125	ZA 2001-735	20010125
NO 2001000497	A	20010327	NO 2001-497	20010129
US 2002072528	A1	20020613	US 2001-961738	20010924
US 6440992	B2	20020827		
US 2003065006	A1	20030403	US 2002-192416	20020710
US 6627640	B2	20030930		
US 2003045545	A1	20030306	US 2002-241931	20020912
US 6677334	B2	20040113		
US 2003064968	A1	20030403	US 2002-242340	20020912
US 6627638	B2	20030930		
US 2003195224	A1	20031016	US 2003-370804	20030220
US 6703402	B2	20040309		
PRAI US 1998-94346P	P	19980728		
US 1999-361544	A	19990727		
EP 1999-935968	A3	19990728		
WO 1999-US17027	W	19990728		
US 2000-593434	A3	20000614		
US 2001-961738	A3	20010924		
US 2002-192416	A1	20020710		

OS MARPAT 132:137381
IT **256922-46-0P 256922-87-9P 256922-88-0P**
256922-90-4P 256922-91-5P 256922-93-7P
256922-95-9P 256922-97-1P 256923-00-9P
256923-02-1P 256923-04-3P 256923-06-5P
256923-08-7P 256923-10-1P 256923-12-3P
256923-18-9P 256923-19-0P 256923-20-3P
256923-21-4P 256923-24-7P 256923-28-1P
256923-30-5P 256923-32-7P 256923-36-1P
256923-39-4P 256923-44-1P 256923-45-2P
256923-48-5P 256923-49-6P 256923-51-0P
256923-55-4P 256923-58-7P 256923-62-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as
immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)

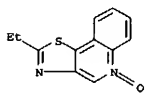
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



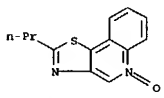
RN 256922-87-9 CAPLUS
CN Thiazolo[4,5-c]quinoline, 5-oxide (9CI) (CA INDEX NAME)



RN 256922-88-0 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-ethyl-, 5-oxide (9CI) (CA INDEX NAME)

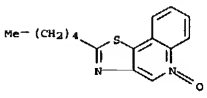


RN 256922-90-4 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

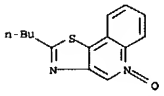


RN 256922-91-5 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-pentyl-, 5-oxide (9CI) (CA INDEX NAME)

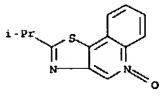
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



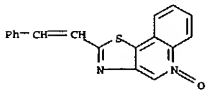
RN 256922-93-7 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-butyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256922-95-9 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(1-methylethyl)-, 5-oxide (9CI) (CA INDEX NAME)

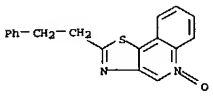


RN 256922-97-1 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(2-phenylethenyl)-, 5-oxide (9CI) (CA INDEX NAME)

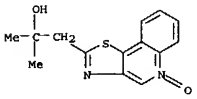


RN 256923-00-9 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(2-phenylethyl)-, 5-oxide (9CI) (CA INDEX NAME)

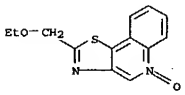
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



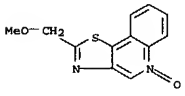
RN 256923-02-1 CAPLUS
CN Thiazolo[4,5-c]quinoline-2-ethanol, α,α-dimethyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-04-3 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(ethoxymethyl)-, 5-oxide (9CI) (CA INDEX NAME)

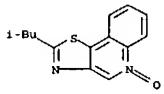


RN 256923-06-5 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(methoxymethyl)-, 5-oxide (9CI) (CA INDEX NAME)

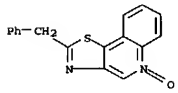


RN 256923-08-7 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(2-methylpropyl)-, 5-oxide (9CI) (CA INDEX NAME)

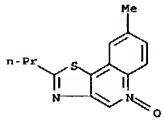
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



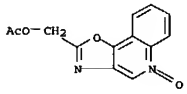
RN 256923-10-1 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(phenylmethyl)-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-12-3 CAPLUS
CN Thiazolo[4,5-c]quinoline, 8-methyl-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

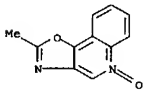


RN 256923-18-9 CAPLUS
CN Oxazolo[4,5-c]quinoline-2-methanol, acetate (ester), 5-oxide (9CI) (CA INDEX NAME)

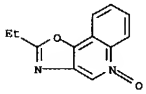


L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

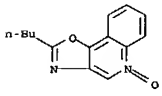
RN 256923-19-0 CAPLUS
CN Oxazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



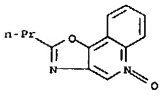
RN 256923-20-3 CAPLUS
CN Oxazolo[4,5-c]quinoline, 2-ethyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-21-4 CAPLUS
CN Oxazolo[4,5-c]quinoline, 2-butyl-, 5-oxide (9CI) (CA INDEX NAME)

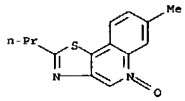


RN 256923-24-7 CAPLUS
CN Oxazolo[4,5-c]quinoline, 2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

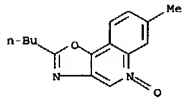


RN 256923-28-1 CAPLUS
CN Thiazolo[4,5-c]quinoline, 7-methyl-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

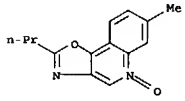
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



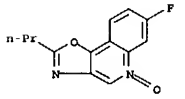
RN 256923-30-5 CAPLUS
CN Oxazolo[4,5-c]quinoline, 2-butyl-7-methyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-32-7 CAPLUS
CN Oxazolo[4,5-c]quinoline, 7-methyl-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

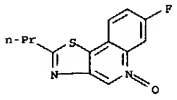


RN 256923-36-1 CAPLUS
CN Oxazolo[4,5-c]quinoline, 7-fluoro-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

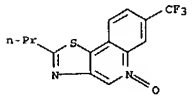


RN 256923-39-4 CAPLUS
CN Thiazolo[4,5-c]quinoline, 7-fluoro-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

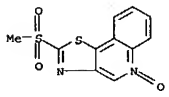
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



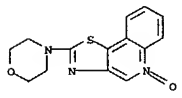
RN 256923-44-1 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-propyl-7-(trifluoromethyl)-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-45-2 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(methylsulfonyl)-, 5-oxide (9CI) (CA INDEX NAME)

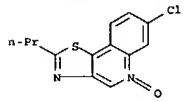


RN 256923-48-5 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(4-morpholinyl)-, 5-oxide (9CI) (CA INDEX NAME)



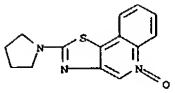
RN 256923-49-6 CAPLUS
CN Thiazolo[4,5-c]quinoline, 2-(1-pyrrolidinyl)-, 5-oxide (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

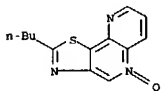


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

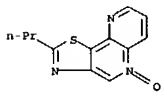
L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



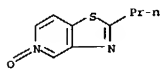
RN 256923-51-0 CAPLUS
CN Thiazolo[4,5-c][1,5]naphthyridine, 2-butyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-55-4 CAPLUS
CN Thiazolo[4,5-c][1,5]naphthyridine, 2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

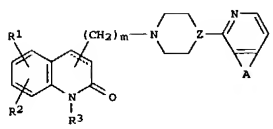


RN 256923-58-7 CAPLUS
CN Thiazolo[4,5-c]pyridine, 2-propyl-, 5-oxide (9CI) (CA INDEX NAME)



RN 256923-62-3 CAPLUS
CN Thiazolo[4,5-c]quinoline, 7-chloro-2-propyl-, 5-oxide (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
GI



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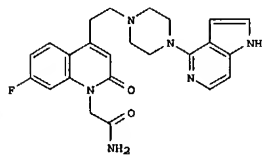


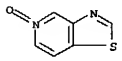
II

AB The invention concerns compds. I [dashed line = single or double bond; major sidechain is in position 3 or 4; Z = N or CH; R1, R2 = H, halo, amino, OH, NO2, cyano, (C1-6) alkyl, (C1-6) alkoxy, CF3, CF3O, COOH, COOR4, CONH2, CONHR4, CONR4R5, SR4, SO2R4, NHCOR4, NHSO2R4, N(R4)2; R3 = H, (C1-4) alkyl, (CH2)pOH, (CH2)pNH2, (CH2)nCOOH, (CH2)nCOOR4, (CH2)nCN, (CH2)n-tetrazolyl, (CH2)nCONH2, (CH2)nCONHOH, (CH2)pSH, (CH2)nSO3H, (CH2)nSO2NH2, (CH2)nSO2NHR4, (CH2)nSO2NR4R5, (CH2)nCONHR4, (CH2)nCONR4R5, (CH2)pNHSO2R4, (CH2)pNHCOR4, (CH2)pOCOR4; R4, R5 = (C1-4) alkyl; m = 2-4; n = 1-4; p = 2-4; A = optional (un)substituted benzo or hetero fusion; with provisos] and salts. The compds. are antagonists of serotoninergic receptors, notably 5-HT2 or 5-HT1-like subtypes. The invention is thereby applicable in therapeutics, particularly for treatment or prevention of cardiovascular pathologies such as ischemias, angina, thromboses, atherosclerosis, various hypertensions, and vasospasms. For instance, 4-(2-chloroethyl)-7-fluoro-2-oxo-1,2-dihydroquinoline-1-acetamide (prepared in 6 steps) was coupled with 4-(piperazin-1-yl)-1H-pyrrolo[3,2-c]pyridine (prepared in 8 steps) using NaHCO3 and KI in MeCN-DMF mixture at 70°, followed by acidification with HCl in Et2O, to give title compound II.2HCl in 64% yield. In a test for inhibition of [3H]-spiroperidol specific binding to rat cerebral 5-HT2 receptors in vitro, I had IC50 values of < 1 μM.
AN 1998:672552 CAPLUS
DN 129:275934
TI Quinolin-2(1H)-one and dihydroquinolin-2(1H)-one derivatives as ligands of

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
5-HT, 5-HT2 and 5-HT1-like receptors
IN McCort, Gary; Hoornaert, Christian; Cadilhac, Caroline; Duclos, Olivier; Guilpain, Eric
PA Synthelabo, Fr.
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9842712	A1	19981001	WO 1998-FR528	19980317
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	FR 2761071	A1	19980925	FR 1997-3387	19970320
	FR 2761071	B1	19991203		
	AU 9869239	A1	19981020	AU 1998-69239	19980317
	EP 971928	A1	20000119	EP 1998-914928	19980317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	ZA 9802362	A	19980923	ZA 1998-2362	19980319
PRAI	FR 1997-3387		19970320		
	WO 1998-FR528		19980317		

OS MARPAT 129:275934
IT **214045-73-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of piperazinylalkyl quinolinone and dihydroquinolinone derivs. as serotoninergic antagonists)
RN 214045-73-5 CAPLUS
CN Thiazolo[4,5-c]pyridine, 5-oxide (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

5/20/2004

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=> file uspatall
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        38.93     350.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -5.54      -5.54

FILE 'USPATFULL' ENTERED AT 17:19:17 ON 20 MAY 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 17:19:17 ON 20 MAY 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d his

     (FILE 'HOME' ENTERED AT 17:15:51 ON 20 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 17:16:08 ON 20 MAY 2004
L1               STRUCTURE UPLOADED
L2             0 S L1
L3             0 S L1 FUL
L4               STRUCTURE UPLOADED
L5             1 S L4
L6            35 S L4 FUL

     FILE 'CAPLUS' ENTERED AT 17:17:56 ON 20 MAY 2004
L7             4 S L6

     FILE 'USPATFULL, USPAT2' ENTERED AT 17:19:17 ON 20 MAY 2004

=> s l6
L8          14 L6

=> d abs bib fhitstr 1-14
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L8 ANSWER 1 OF 14 USPATFULL on STN
AB Described in the present invention are a sulfonyl derivative represented
by the following formula (I):

Q.sup.1-Q.sup.2-T.sup.1-Q.sup.3-SO.sub.2-Q.sup.A (I)

[wherein Q.sup.1 represents a saturated or unsaturated 5- or 6-membered cyclic hydrocarbon group, 5- or 6-membered heterocyclic group, dicyclic fused ring or tricyclic fused ring group which may have a substituent;

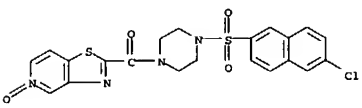
Q.sup.2 represents a single bond, an oxygen atom, a sulfur atom, a linear or branched C.sub.1-6 alkylene group or the like;

Q.sup.A represents an arylalkenyl group which may have a substituent or a heteroarylalkenyl group which may have a substituent; and

T.sup.1 represents a carbonyl group or the like] and a medicament comprising the same. The compound has strong FXa inhibitory action, provides prompt, sufficient and long-lasting anti-thrombus effects when orally administered, and has low side effects and is therefore useful as
an excellent anticoagulant.

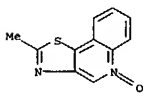
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2004:108209 USPATFULL
TI Novel sulfonyl derivatives
IN Kobayashi, Syozo, Tokyo, JAPAN
Komoriya, Satoshi, Tokyo, JAPAN
Haginoya, Noriyasu, Tokyo, JAPAN
Suzuki, Masanori, Tokyo, JAPAN
Yoshino, Toshiharu, Tokyo, JAPAN
Nagahara, Takayasu, Tokyo, JAPAN
Nagata, Tsutomu, Tokyo, JAPAN
Horino, Haruhiko, Tokyo, JAPAN
Ito, Masayuki, Tokyo, JAPAN
Mochizuki, Akiyoshi, Tokyo, JAPAN
PA DAIICHI PHARMACEUTICAL CO., LTD., Tokyo, JAPAN (non-U.S. corporation)
PI US 2004082611 A1 20040429
AI US 2003-681205 A1 20031009 (10)
RLI Division of Ser. No. US 2001-762888, filed on 12 Feb 2001, PENDING A 371
of International Ser. No. WO 1999-JP4344, filed on 11 Aug 1999, UNKNOWN
PRAI JP 1998-227449 19980811
JP 1998-244175 19980828
JP 1998-251674 19980904
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 25945
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **259806-05-8P**

L8 ANSWER 1 OF 14 USPATFULL on STN (Continued)
(prepn. of sulfonyl moiety-contg. heterocyclic compds. as factor Xa inhibitors)
RN 259806-05-8 USPATFULL
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



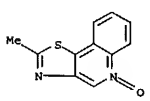
L8 ANSWER 2 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:277197 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4- amines and analogs thereof
IN Gerster, John F., Woodbury, MN, UNITED STATES
Lindstrom, Kyle J., Houlton, WI, UNITED STATES
Marszalek, Gregory J., St. Paul, MN, UNITED STATES
Merrill, Bryon A., River Falls, WI, UNITED STATES
Mickelson, John W., North St. Paul, MN, UNITED STATES
Rice, Michael J., Oakdale, MN, UNITED STATES
PA 3M Innovative Properties Company (U.S. corporation)
PI US 2003195224 A1 20031016
US 6703402 B2 20040309
AI US 2003-370804 A1 20030220 (10)
RLI Division of Ser. No. US 2002-192416, filed on 10 Jul 2002, PENDING Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, GRANTED, Pat.
No. US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, GRANTED, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, GRANTED, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS APPLICATION
LREP 3M INNOVATIVE PROPERTIES COMPANY, PO BOX 33427, ST. PAUL, MN, 55133-3427
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



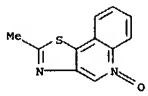
L8 ANSWER 3 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:93645 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, UNITED STATES
Lindstrom, Kyle J., Houlton, WI, UNITED STATES
Marszalek, Gregory J., St. Paul, MN, UNITED STATES
PA 3M Innovative Properties Company (U.S. corporation)
PI US 2003065006 A1 20030403
US 6527640 B2 20030930
AI US 2002-192416 A1 20020710 (10)
RLI Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, GRANTED, Pat.
No. US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, GRANTED, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, GRANTED, Pat. No. US 6110929
DT Utility
FS APPLICATION
LREP Office of Intellectual Property Counsel, 3M Innovative Properties Company, PO Box 33427, St. Paul, MN, 55133-3427
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3057
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

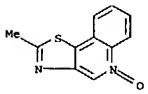
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:93607 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, UNITED STATES
Lindstrom, Kyle J., Houlton, WI, UNITED STATES
Marszalek, Gregory J., St. Paul, MN, UNITED STATES
Merrill, Bryon A., River Falls, WI, UNITED STATES
Mickelson, John W., North St. Paul, MN, UNITED STATES
Rice, Michael J., Oakdale, MN, UNITED STATES
PA 3M Innovative Properties Company (U.S. corporation)
PI US 2003064968 A1 20030403
US 6627638 B2 20030930
AI US 2002-242340 A1 20020912 (10)
RLI Continuation of Ser. No. US 2002-192416, filed on 10 Jul 2002, PENDING Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, GRANTED, Pat.
No. US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, GRANTED, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, GRANTED, Pat. No. US 6110929
DT Utility
FS APPLICATION
LREP 3M Innovative Properties Company, Office of Intellectual Property Counsel, PO Box 33427, St. Paul, MN, 55133-3427
CLMN Number of Claims: 71
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3214
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 14 USPATFULL on STN (Continued)

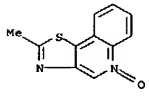
L8 ANSWER 5 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:65421 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, UNITED STATES
Lindstrom, Kyle J., Houlton, WI, UNITED STATES
Marszalek, Gregory J., St. Paul, MN, UNITED STATES
Merrill, Bryon A., Rive Falls, WI, UNITED STATES
Mickelson, John W., North St. Paul, MN, UNITED STATES
Rice, Michael J., Oakdale, MN, UNITED STATES
PA 3M Innovative Properties Company (U.S. corporation)
PI US 2003045545 A1 20030306
US 6677334 B2 20040113
AI US 2002-241931 A1 20020912 (10)
RLI Continuation of Ser. No. US 2002-192416, filed on 10 Jul 2002, PENDING Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, GRANTED, Pat.
No. US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, GRANTED, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, GRANTED, Pat. No. US 6110929
DT Utility
FS APPLICATION
LREP Office of Intellectual Property Counsel, 3M Innovative Properties Company, PO Box 33427, St. Paul, MN, 55133-3427
CLMN Number of Claims: 60
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3103
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



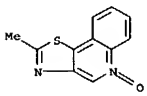
L8 ANSWER 6 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2002:141541 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, UNITED STATES
Lindstrom, Kyle J., Houlton, MN, UNITED STATES
Marszalek, Gregory J., St. Paul, MN, UNITED STATES
Merrill, Bryon A., River Falls, WI, UNITED STATES
Mickelson, John W., North St. Paul, MN, UNITED STATES
Rice, Michael J., Oakdale, MN, UNITED STATES
PA 3M Innovative Properties Company (U.S. corporation)
PI US 2002072528 A1 20020613
US 6440992 B2 20020827
AI US 2001-961738 A1 20010924 (9)
RLI Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, GRANTED, Pat.
No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, GRANTED, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS APPLICATION
LREP Office of Intellectual Property Counsel, 3M Innovative Properties Company, PO Box 33427, St. Paul, MN, 55133-3427
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3058
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



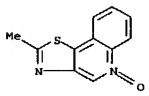
L8 ANSWER 7 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2001:215050 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c] quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., River Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6323200 B1 20011127
AI US 2000-593434 20000614 (9)
RLI Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, now patented,
Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Rotman, Alan L.; Assistant Examiner: Desai, Rita
LREP Howard, MarySusan, Ringsred, Ted K., Sprague, Robert W.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2934
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



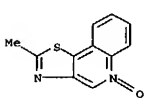
L8 ANSWER 8 OF 14 USPATFULL on STN
AB A lubricant feeder which is highly safe and usable, e.g., in an oil seal
for a food-processing machine is disclosed. Lubricant feeders 11 each comprising a solid synthetic resin containing a lubricant feed the lubricant to side seals 10 and a rail 1, which all require lubrication. Each lubricant feeder 11 is interposed between the side seal 10 and a reinforcing plate 20 and is fixed to an end cap 2B. The lubricant is a white mineral oil or a grease including a white mineral oil as a base oil and aluminum soap as a thickener, and the synthetic resin comprises a polyolefin resin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2000:123596 USPATFULL
TI Lubricant feeder and linear apparatus
IN Yabe, Toshikazu, Kanagawa, Japan
Hoshi, Takaaki, Gunma, Japan
PA NSK Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 6119813 20000919
AI US 1998-94346 19980610 (9)
PRAI JP 1997-152452 19970610
DT Utility
FS Granted
EXNAM Primary Examiner: Fenstermacher, David M.
LREP Sughrue, Mion, Zinn, Macpeak & Seas, PLLC
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 741
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



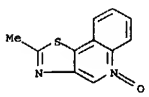
L8 ANSWER 9 OF 14 USPATFULL on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2000:113956 USPATFULL
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., River Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6110929 20000829
AI US 1999-361544 19990727 (9)
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Rotman, Alan L.; Assistant Examiner: Desai, Rita
LREP Howard, MarySusan, Ringsred, Ted K., Sprague, Robert W.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2874
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPATFULL
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



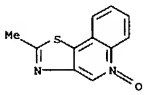
L8 ANSWER 10 OF 14 USPAT2 on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:277197 USPAT2
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., Rivers Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6703402 B2 20040309
AI US 2003-370804 20030220 (10)
RLI Division of Ser. No. US 2002-192416, filed on 10 Jul 2002 Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, now patented, Pat. No. US
6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, now patented, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed
on 27 Jul 1999, now patented, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Desai, Rita
LREP Ersfeld, Dean A.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 2966
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPAT2
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



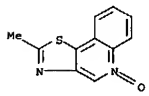
L8 ANSWER 11 OF 14 USPAT2 on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:93645 USPAT2
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6627640 B2 20030930
AI US 2002-192416 20020710 (10)
RLI Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, now patented,
Pat. No. US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun
2000, now patented, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, now patented, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Desai, Rita
LREP Ersfeld, Dean A.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 2950
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPAT2
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 12 OF 14 USPAT2 on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

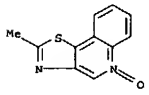
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:93607 USPAT2
TI Oxazolo, thiazolo and selenazolo [4,5-c]quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., River Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6627638 B2 20030930
AI US 2002-242340 20020912 (10)
RLI Continuation of Ser. No. US 2002-192416, filed on 10 Jul 2002 Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, now patented, Pat. No.
US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, now patented, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, now patented, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Desai, Rita
LREP Ersfeld, Dean A.
CLMN Number of Claims: 43
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 3056
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPAT2
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 12 OF 14 USPAT2 on STN (Continued)

L8 ANSWER 13 OF 14 USPAT2 on STN
AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:65421 USPAT2
TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof
IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., River Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States
PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)
PI US 6677334 B2 20040113
AI US 2002-241931 20020912 (10)
RLI Continuation of Ser. No. US 2002-192416, filed on 10 Jul 2002 Division of Ser. No. US 2001-961738, filed on 24 Sep 2001, now patented, Pat. No.
US 6440992 Division of Ser. No. US 2000-593434, filed on 14 Jun 2000, now patented, Pat. No. US 6323200 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, now patented, Pat. No. US 6110929
PRAI US 1998-94346P 19980728 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Desai, Rita
LREP Ersfeld, Dean A.
CLMN Number of Claims: 35
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 3005
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)
RN 256922-46-0 USPAT2
CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 14 OF 14 USPAT2 on STN

AB Thiazolo-, oxazolo- and selenazolo[4,5-c]quinolin-4-amines and analogs thereof are described including methods of manufacture and the use of novel intermediates. The compounds are immunomodulators and induce cytokine biosynthesis, including interferon and/or tumor biosynthesis, necrosis factor, and inhibit the T-helper-type 2 immune response. The compounds are further useful in the treatment of viral and neoplastic diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:141541 USPAT2

TI Oxazolo, thiazolo and selenazolo [4,5-c]-quinolin-4-amines and analogs thereof

IN Gerster, John F., Woodbury, MN, United States
Lindstrom, Kyle J., Houlton, WI, United States
Marszalek, Gregory J., St. Paul, MN, United States
Merrill, Bryon A., River Falls, WI, United States
Mickelson, John W., North St. Paul, MN, United States
Rice, Michael J., Oakdale, MN, United States

PA 3M Innovative Properties Company, St. Paul, MN, United States (U.S. corporation)

PI US 6440992 B2 20020827

AI US 2001-961738 20010924 (9)

RLI Division of Ser. No. US 2000-593434, filed on 14 Jun 2000 Division of Ser. No. US 1999-361544, filed on 27 Jul 1999, now patented, Pat. No. US 6110929

PRAI US 1998-94346P 19980728 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Rotman, Alan L.; Assistant Examiner: Desai, Rita

LREP Erasfeld, Dean A.

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

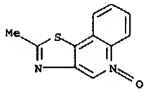
LN.CNT 2857

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **256922-46-0P**
(preparation of oxazolo, thiazolo and selenazolo[4,5-c]quinolin-4-amines as immunomodulators and for inducing cytokine biosynthesis)

RN 256922-46-0 USPAT2

CN Thiazolo[4,5-c]quinoline, 2-methyl-, 5-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 14 OF 14 USPAT2 on STN (Continued)

5/20/2004

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	80.21	430.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.54

STN INTERNATIONAL LOGOFF AT 17:20:49 ON 20 MAY 2004